



CPTED and Lighting





Art Hushen

Founder - NICP, Inc.



- Founded the National Institute of Crime Prevention / NICP Inc. in 1999
- Adjunct Professor **University of South Florida** Dept. of Criminology / CPTED
- 30-year retired Law Enforcement Officer / Specialty CPTED & Crime Prevention
- Designed and manage the internationally recognized CPTED Professional Designation (CPD)
- Assisted in design of current FCPTI FCP Program
- Executive Director US CPTED Association
- IDA ROLAN Education Committee
- ASIS Member
- Past Chair FLDOCA
- USCA “Lifetime Achievement Award”
- IES Security Lighting Committee Past Member
- Past Members ASIS Physical Security Council
- Lead CPTED Instructor FCPTI (20+years)

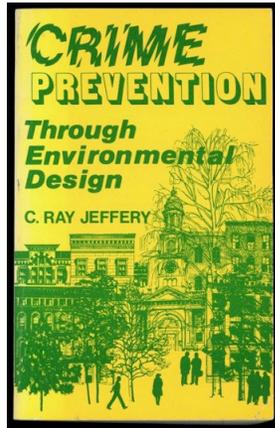
CPTED



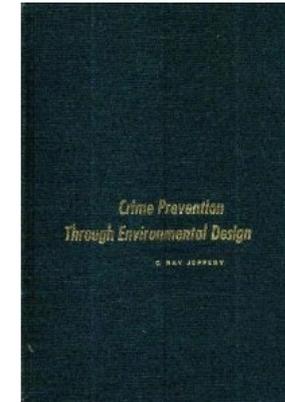
CPTED is defined as “*the **proper design** and **effective use** of the built environment that can lead to a reduction in the fear and incidence of crime and an improvement in the quality of life.*”



The History and Development of Crime Prevention Through Environmental Design



C. Ray Jeffery 1921-2007



A criminologist who wrote the book, “Crime Prevention Through Environmental Design” in 1971.

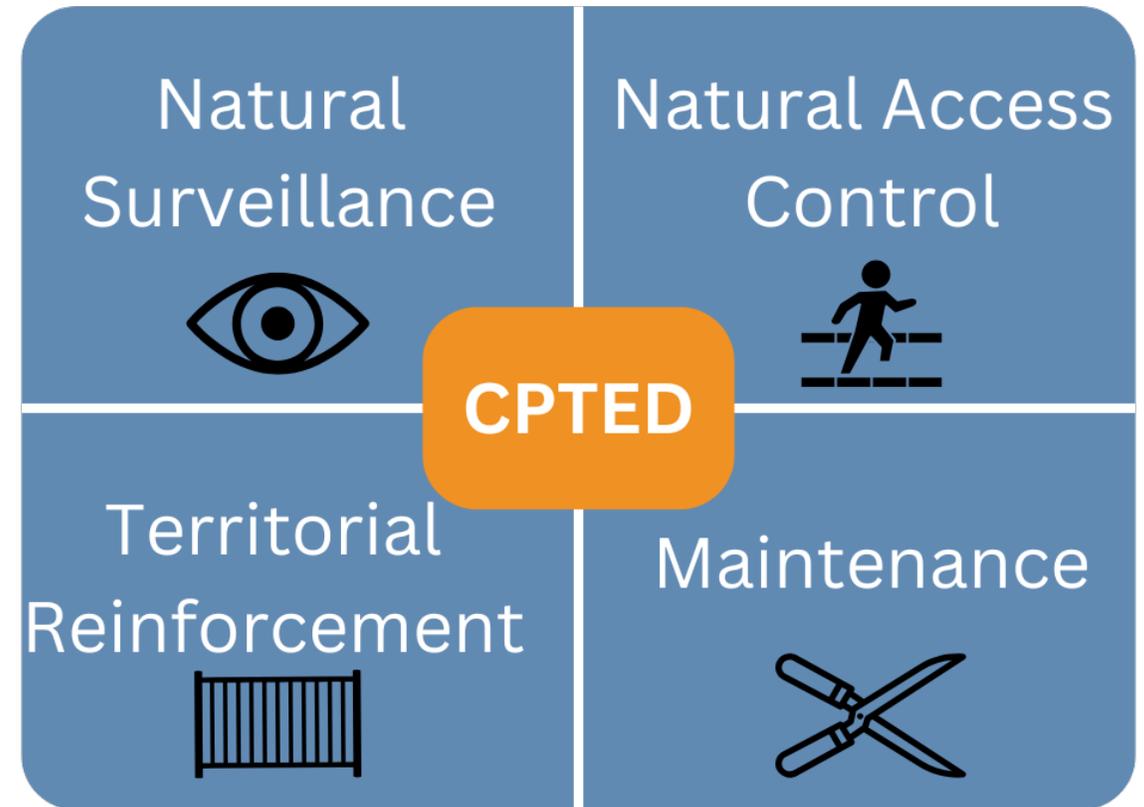
Contended that the way to prevent crime is to design the ‘*total environment*’ in order to reduce opportunities for crime.

First use of phrase “Crime Prevention Through Environmental Design” (CPTED)

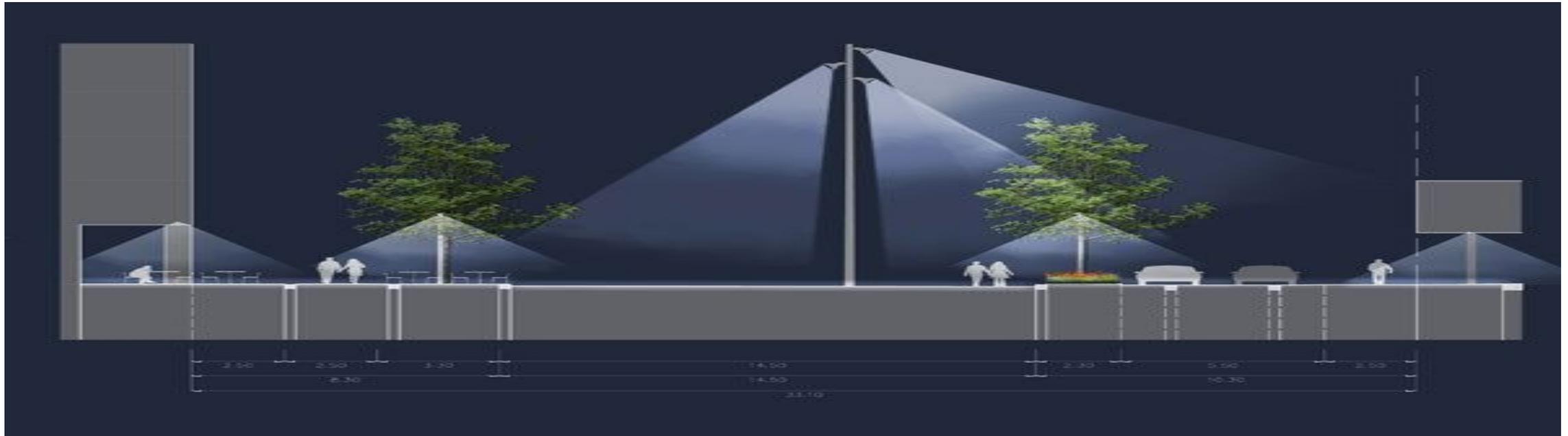
CPTED



Crime Prevention Through Environmental Design



Crime and Safety

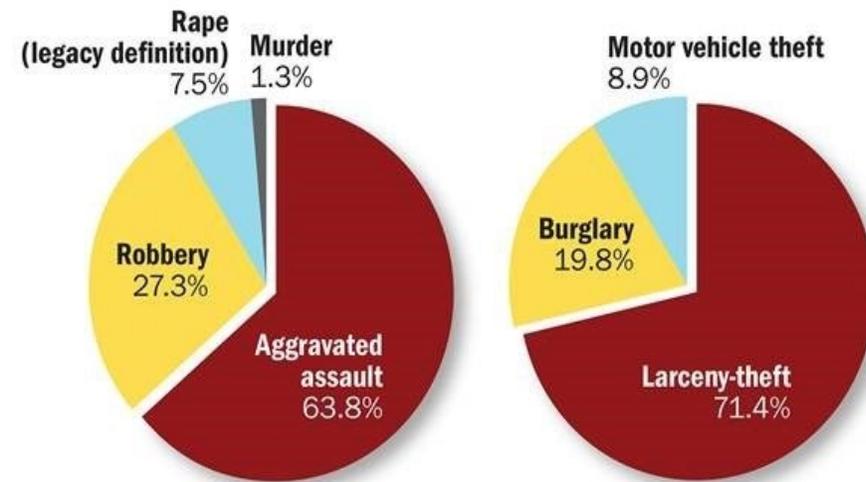


Fear of Crime



Reducing fear of crime

- Reducing the incidence of Crime.
 - Auto Theft,
 - Robbery
 - Assault



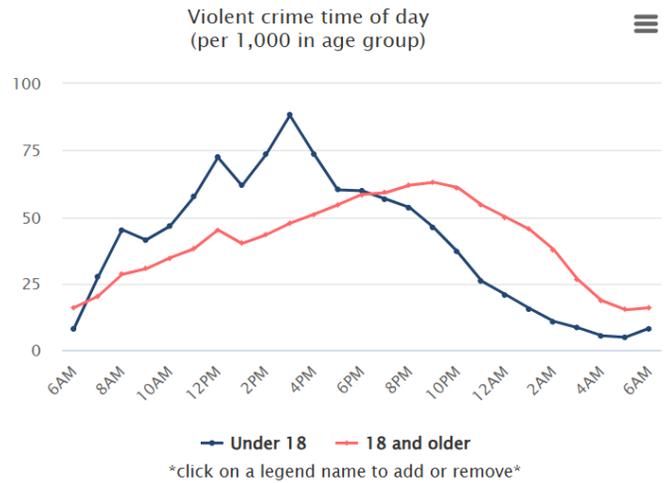
Fear of Crime



Reported Crime
Unreported Crime



Fear of Crime



Note: Violent crimes include murder, violent sexual assault, robbery, aggravated assault, simple assault, and kidnapping.
Data are from law enforcement agencies in 45 states and the District of Columbia.

[[Text only](#)] [[CSV file](#)]

- In general, the number of violent crimes committed by adults increases hourly from 6 a.m. through the afternoon and evening hours, peaks at 9 p.m., and then drops to a low point at 5 a.m. In contrast, violent crimes committed by youth peak in the afternoon between 3 p.m. and 4 p.m., the hour at the end of the school day.
- More than one-third (37%) of all violent crime committed by youth occurs in the 5 hour period between noon and 5 p.m. In comparison, 30% of all violent crime committed by adults occurs between 6 p.m. and 11 p.m..

Internet citation: *OJJDP Statistical Briefing Book*. Online. Available: <https://www.ojjdp.gov/ojstatbb/offenders/qa03401.asp?qaDate=2019>. Released on April 18, 2022.

More than half of police incidents took place during the day:

- Larceny/theft, drug violations, simple assaults, and property crimes were slightly more likely to happen while the sun was out, but more violent crimes such as driving while impaired, murder, rape/sexual assault, and robbery were more frequently reported at night.

Percentage of Police Incident Reports, by Offense Type

Offense	At Night Percentage	During the Day Percentage
DWI/DUI	87%	13%
Murder & Negligent Manslaughter	65%	35%
Rape/Sexual Assault	59%	41%
Robbery	56%	44%
Aggravated Assault	54%	46%
Motor Vehicle Theft	51%	49%
Burglary	50%	50%
Property Crime	48%	52%
Simple Assault	47%	53%
Drug Violation	43%	57%
Larceny/Theft	40%	60%

CPTED



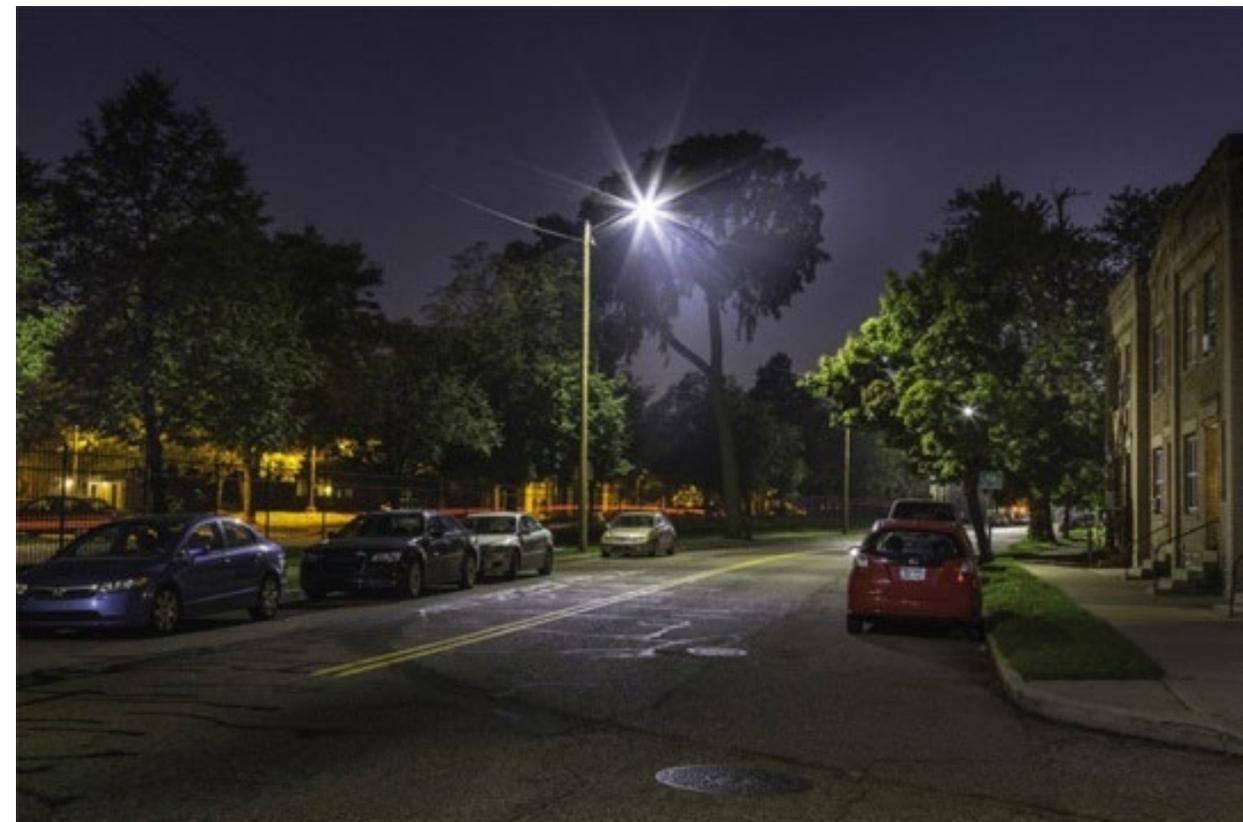
Lighting has two purposes within the CPTED model

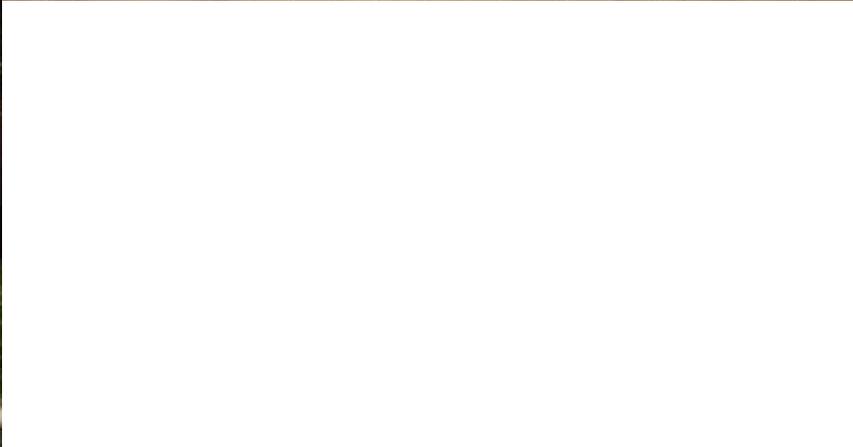
1. Lighting is used for the illumination of human activity.
2. Lighting is used for security.



CPTED

Glare



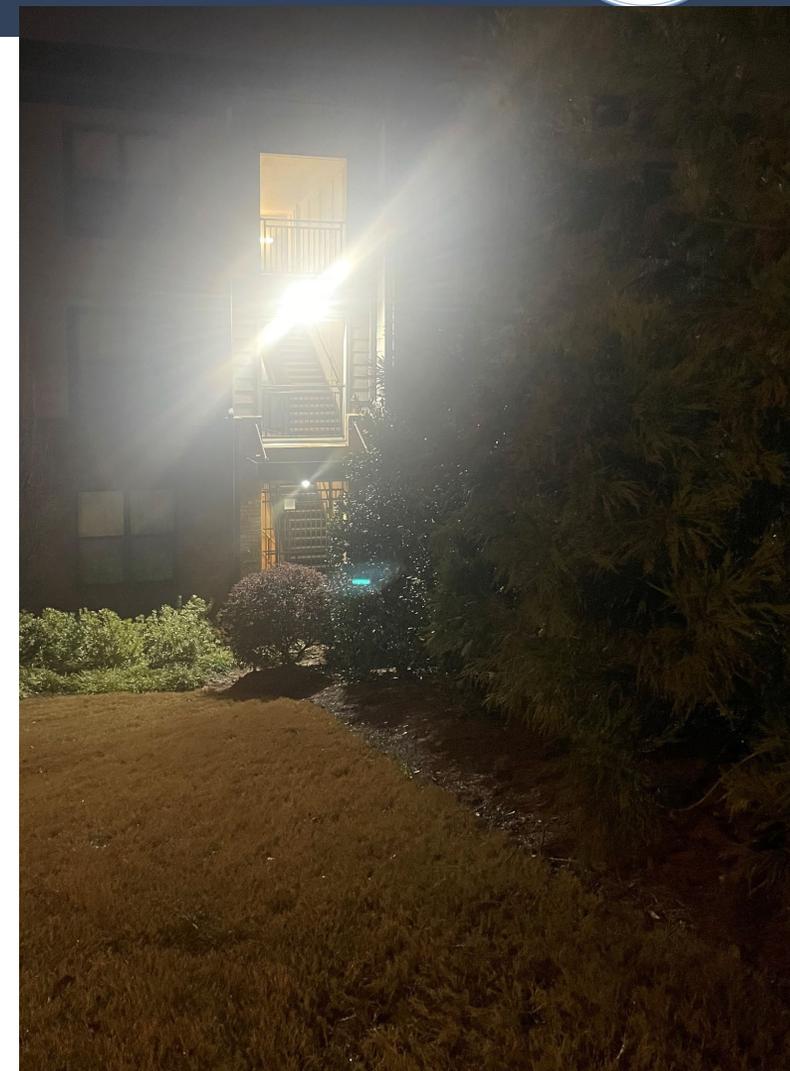


Glare

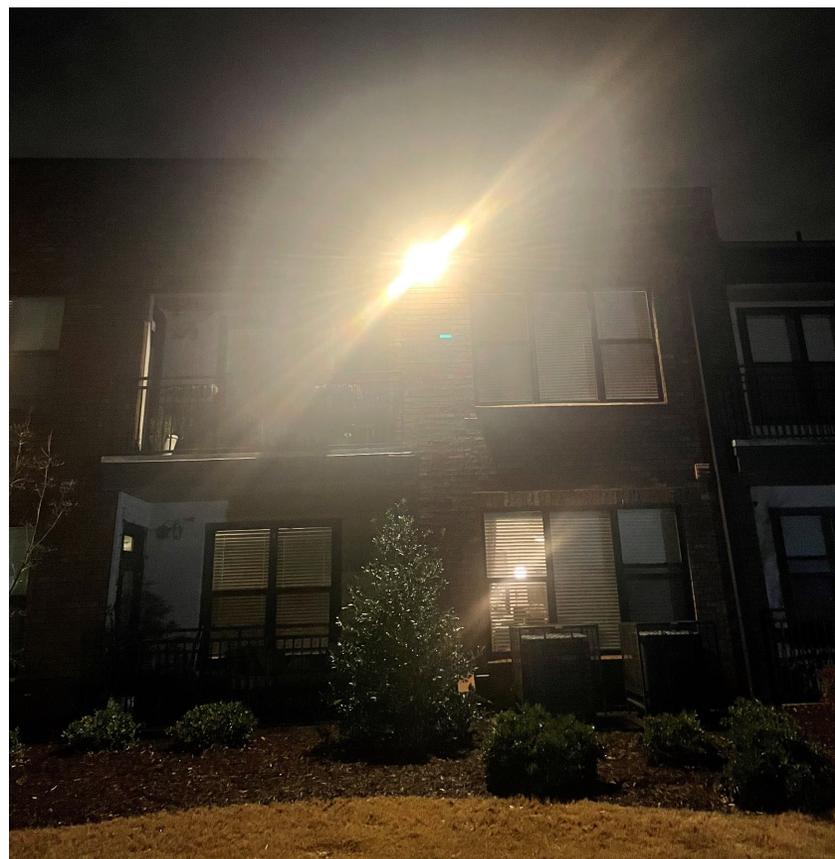


CPTED

Glare



Wall pack fixture



CPTED



Decorative
fixtures daytime.

Glare



CPTED

Glare

Same decorative
fixtures at
nighttime



CPTED

Adaptation / Glare

Daytime view.

Wall pack fixture at exit and employee entrance.





Nighttime view.

How difficult is it to view the person standing at the doorway?



CPTED

Campus walkway in daytime



Daytime view.

Landscaping is following the 2 ft 6 ft rule.

Can you see everyone?



CPTED

Same campus walkway at night.



Nighttime

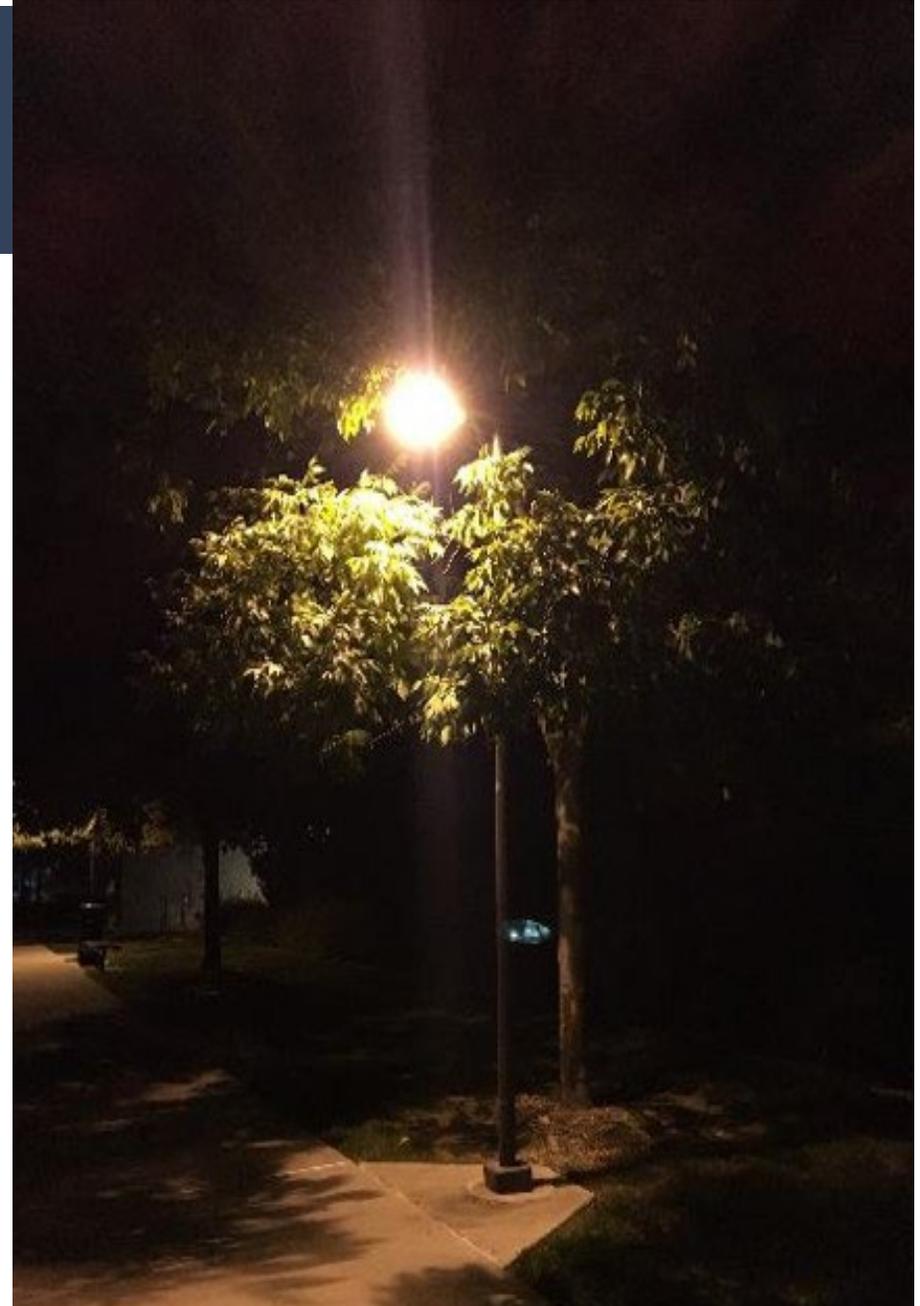
Landscaping is blocking lighting.





Darkest areas are directly next to fixtures, even though the 2 ft 6 ft rule is applied.

Separate lighting and trees.



Tree Canopy



Lighting placement



Tree Canopy



Does Lighting Deter Crime?



THE NEW YORKER DOCUMENTARY

THE CONTROVERSIAL FLOODLIGHTS ILLUMINATING NEW YORK CITY'S PUBLIC-HOUSING DEVELOPMENTS

The documentary short "Omnipresence" looks at the complicated ways that a set of bright lights, installed to help reduce nighttime crime, is affecting residents' lives.

June 30, 2021



WWW-NEWYORKER-COM.CDN.AMPPROJECT.ORG ✓

The Controversial Floodlights Illuminating New York City's Public-Housing Developments

DOES
LIGHTING
DETER CRIME

Does Lighting Deter Crime?

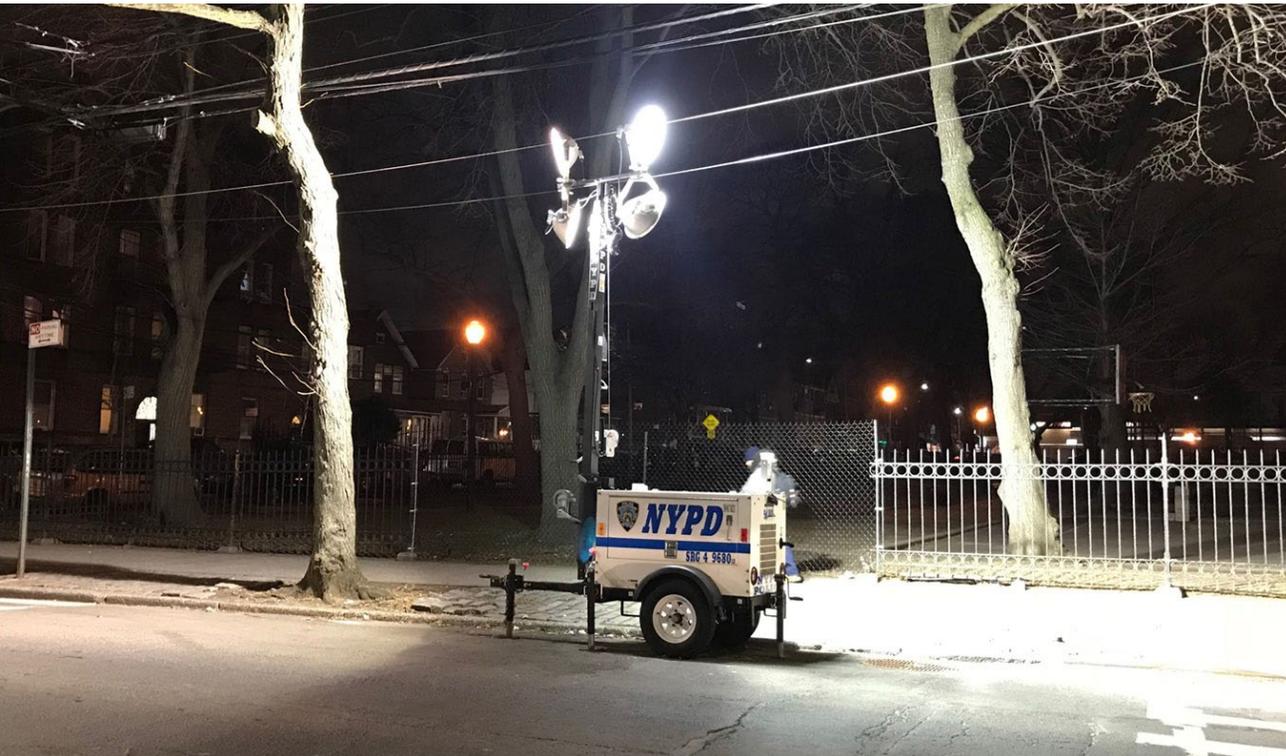


In 2016, the Mayor's office, the New York City Housing Authority, and the N.Y.P.D. deployed additional lights at forty public-housing developments across the city. An assessment by social scientists at the National Bureau of Economic Research found that, over a six-month period, **"The provision of streetlights led, at a minimum, to a 36 percent reduction in nighttime outdoor index crimes,"** including assault, robbery, and motor-vehicle theft. The data were in; the lights were here to stay, and the city would install more.



Does Lighting Deter Crime?

60,000 lumens & higher



What is the solution? More lighting!

LIGHTING
AGAINST CRIME
A GUIDE FOR CRIME
REDUCTION PROFESSIONALS



A BRIGHT
IDEA ON CRIME

Purposes of Lighting

- Safety
- Security
- Navigation
- Decoration
- Advertising



SAVE THE DATE

CAMPUS SAFETY
LIGHTING WALK

Tuesday, January 28th
5pm @ MU Flagpole

Join our campus walk to ensure all lighting systems are functioning properly. All students, faculty and staff are invited to attend.

LEE DAVIDS CONSULTING
LLC
LIGHTING SOLUTIONS

Wear comfortable shoes and a warm jacket, we'll provide flashlights and 100% power.
Free T-shirts for first 100 participants



LIGHT UP YOUR
PARKING
LOT

- Lighting enhances the aesthetics of your business
- Good lighting serves as a deterrent against crime
- Well lit parking lots are safer for drivers & pedestrians



- Security cameras capture details better in a well-lit area
- Your client's experience with your business starts in the parking lot

ECP's Light Pole Foundations are an economic, environmentally friendly way to install lighting in your business parking lot.



Our lights can help cut crime rates by 21%

INCREASE SAFETY AFTER DARK THROUGH OUTDOOR LIGHTING
CUT NIGHT-TIME CRIME BY 39%



7% OVERALL REDUCTION
IN SERIOUS CRIMINAL OFFENSES

LIGHTING REDUCES CRIME

- Improved lighting deterrence to criminals by increasing the likelihood they will be seen or captured by surveillance systems
- Eliminates dark areas, which are a leading cause of burglary and other crimes
- Low lighting can encourage criminals to search for the "dark places" in their neighborhood to increase their chances of successful criminal activity
- Improved lighting can encourage more people to walk at night, which can increase individual surveillance
- You can report a street lighting issue by clicking: [Age-Action/Outages/Report/StreetLight](#)

TURN ON YOUR PORCHLIGHTS!



LIGHTING FOR SAFETY

6 OUTDOOR SPACES



1 ROADWAY LIGHTING DRIVEWAYS PARKING AREAS STREETS	2 REAR YARD LIGHTING BACKYARDS EXTENSIVE CORNERS SIDE-REAR POOL AREAS	3 MOUNTED LIGHTING ENTRANCES PERIMETER	4 LANDSCAPE LIGHTING TREES, PLANTS FLOWERS, GRASS POND, FOUNTAIN WALKWAYS	5 MOTION-SENSITIVE LIGHTS PATHWAYS DOORS BACKYARD
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Do Outside Lights Deter Burglars?



19TH DISTRICT
CHICAGO POLICE DEPARTMENT
312-744-0064




Light Up the Night Community Project

Criminals work best in dark areas.
They depend on crimes of opportunity.

But you can help fight crime
With a few simple steps:

- HELP US LIGHT UP YOUR STREET WITH PORCH LIGHTS TURNED ON AT DUSK
- ALWAYS REPORT STREET AND ALLEY LIGHTS THAT ARE OUT AS SOON AS POSSIBLE BY CALLING 311
- CHECK EXTERIOR LIGHTING SURROUNDING YOUR HOME. IF THERE ARE DARK AREAS, CONSIDER INSTALLING ADDITIONAL LIGHTING SUCH AS MOTION SENSORS.
- TRIM BUSHES AND FOLIAGE TO NO MORE THAN 4 FEET TALL

Safe Neighborhoods are everyone's business.
For more information please contact:
Allyson Torrey's Office 773-333-6034

EXTERIOR LIGHTING'S ROLE IN SAFETY & SECURITY



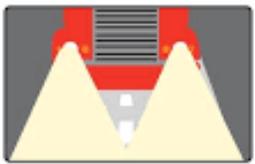
LIGHTING

CRIME & SAFETY

Why We Light

- To Improve Visibility
- To Extend the Day
- To Enhance Commerce
- To "Feel Safer"
- Fear of Litigation
- Primal Fear of the Dark

LIGHTS ON FOR SAFETY



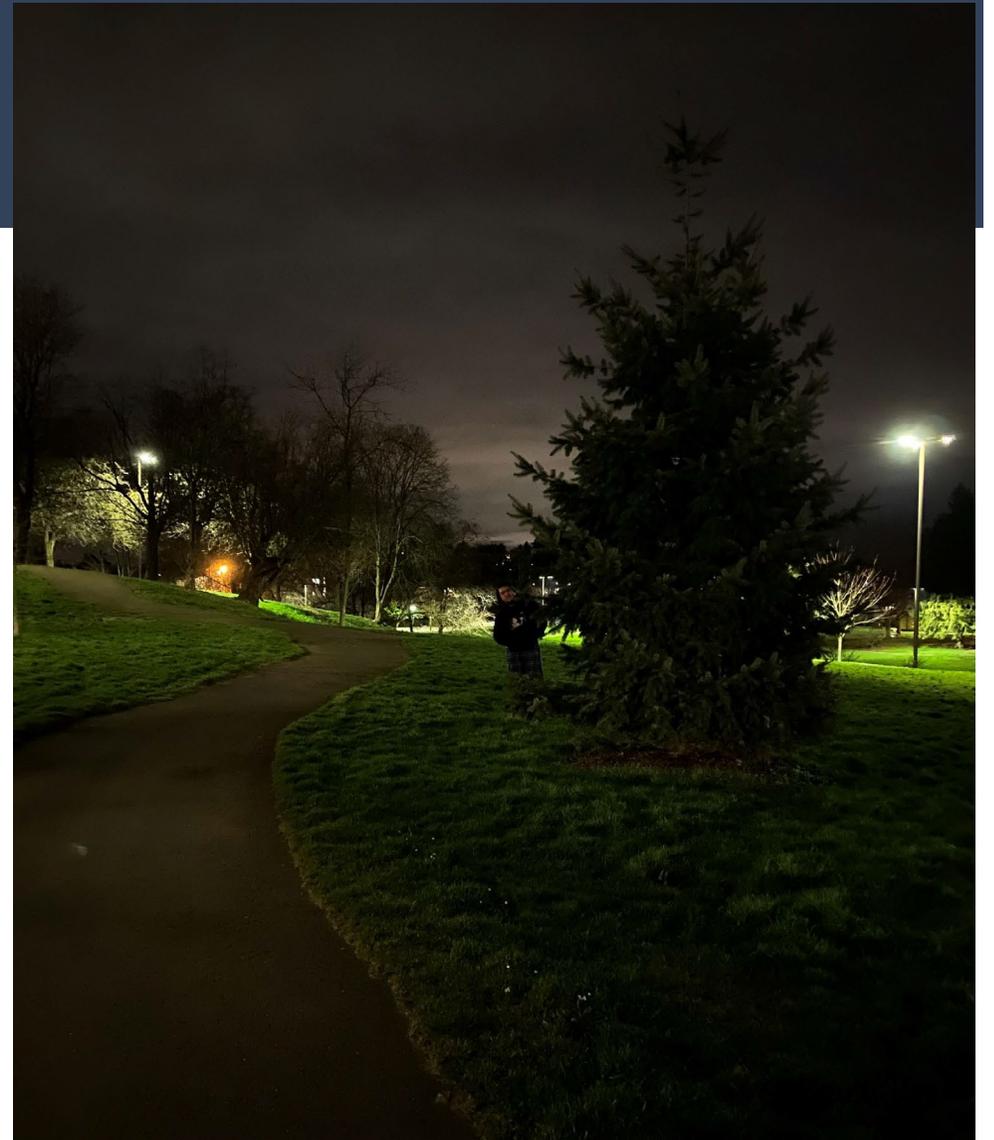
LIGHT THE NIGHT

FRIENDS OF CAPITOL MANSIONS
ALLEY ILLUMINATION PROJECT

Does Lighting Deter Crime?



Does Lighting Deter Crime?





DOES LIGHTING DETER CRIME?

Lighting issues?

Does Lighting Deter Crime?



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IDEAS

Turn Down the Streetlights

What Seattle's dark streets tell us about crime

By Eric Scigliano



Illustration by Matteo Giuseppe Pani

The idea that street lighting—the more the better—prevents crime is so embedded in our culture that tautologies like *because it has more lights* come easily. This assumption persists against the objections of scientists, stargazers, and organizations such as Dark Sky International. And it persists despite mounting evidence of the baleful effects of excessive and misdirected illumination—a.k.a. light pollution—on wildlife and human health, not to mention on the sense of wonder of people who grow up never seeing the Milky Way.

Even some politicians and police officials have come to question the dogma. Art Hushen, formerly with the Tampa Police Department, is one such cop; he now teaches cities and police departments around the country how to light less and light smarter. “You get communities saying, *We need more lights,*” he told me. “No, you don’t. You need better lights.” And better lighting doesn’t mean brighter lighting.

Lighting Standards



Section 5.6 Exterior Lighting

5.6.1 Purpose and Intent

The purpose and intent of this section is to regulate exterior lighting to:

- A. Ensure all exterior lighting is designed and installed to maintain adequate lighting levels on site;
- B. Assure that excessive light spillage and glare are not directed at adjacent lands, neighboring areas, and motorists;
- C. Curtail light pollution, reduce skyglow, and preserve the nighttime environment for the enjoyment of residents and visitors;
- D. Conserve energy and resources to the greatest extent possible; and
- E. Provide security for persons and land.



The
Lighting
Authority

Lighting Standards

The Illuminating Engineering Society of North America (IESNA) is a nonprofit organization that's the recognized technical authority on illumination. The IESNA improves lighting quality through:

Developing and publishing lighting standards

Research and education

Classifying light distribution types

IES.org



DarkSky
INTERNATIONAL

DarkSky Association International is the recognized authority on light pollution and is the leading organization combating light pollution worldwide.

DarkSky.org

Does Lighting Deter Crime?



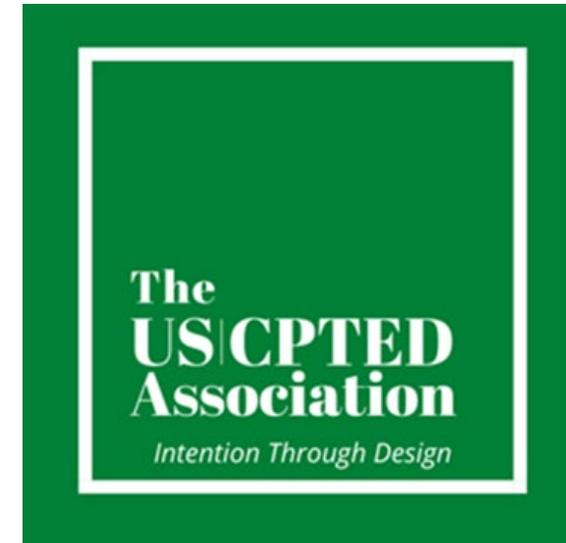
There is a tendency to focus on individualistic and technical solutions rather than addressing the root problem, especially when a small group of experts make design decisions without participation from the wider community.

There needs to be a more all-inclusive understanding of the social and environmental factors contributing to crime.

National Institute of Crime Prevention



TheNICP.com



USCPTED.com